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# Optimal Spectral Decomposition (OSD) for Analysis of GTSP/Argo Data

Chu, Peter C.

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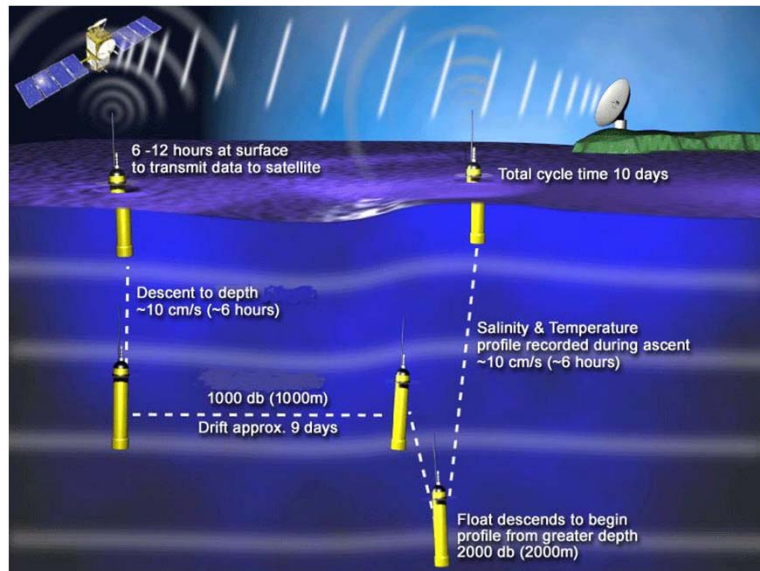
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# Optimal Spectral Decomposition (OSD) for Analysis of GTSPP/Argo Data

PI: Peter C. Chu ([pcchu@nps.edu](mailto:pcchu@nps.edu)), Sponsor: NOAA/Office of Scientific Research  
2006-2009, Funding Level: \$96,380



## Brief Description

Development of high efficient OSD method to process sparse and noisy ocean observational data.

## NPS Thesis

Rana, H., “[Spatial and Temporal Variability of the Indian Ocean Surface Currents Determined from Satellite Data with Application to Naval Operations](#)”, MS in PO, June 2008

## Selected Publications

Chu, P.C., 2011: Global upper ocean heat content and climate variability. *Ocean Dynamics*, in press ([paper download](#)).

Chu, P. C., 2008: Probability distribution function of the upper equatorial Pacific current speeds. *Geophysical Research Letters*, **35**, doi:10.1029/2008GL033669 ([paper download](#)).

Chu, P.C., L.M. Ivanov, O.V. Melnichenko, and N.C. Wells, 2007: Long baroclinic Rossby waves in the tropical North Atlantic observed from profiling floats. *Journal of Geophysical Research*, American Geophysical Union, **112**, C05032, doi:10.1029/2006JC003698 ([paper download](#)).

Chu, P.C., L.M. Ivanov, and T.M. Margolina, 2007: On nonlinear sensitivity of marine biological models to parameter variation. *Ecological Modelling*, **206** (3-4), 369-382, doi:10.1016/j.ecolmodel.2007.04.006 ([paper download](#)).